

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Revision No: 1.1

1.1. Product identifier

TIP TOP REMACOAT D-40-S POLY Art.-No.

590 3092, 590 3102

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture

Coating system for protection against wear and corrosion

1.3. Details of the supplier of the safety data sheet		
Company name:	TIP TOP Oberflaechenschutz Elbe GmbH	
Street:	Heuweg 4	
Place:	D-06886 Wittenberg	
Telephone:	+49(0)3491/635-50	
Telefax:	+49(0)3491/635-552	
Responsible Department:	Responsible for the safety data sheet: sds@gbk-ingelheim.de	
1.4. Emergency telephone number:	INTERNATIONAL: +49 - (0) 6132 - 84463, GBK GmbH (24h - 7d/w - 365d/a) England and Wales: NHS Direct - 0845 4647; Scotland: NHS 24 - 08454 24 24 24	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture according to 1272/2008/EC

Hazard categories: Acute toxicity: Acute Tox. 4 Skin corrosion/irritation: Skin Corr. 1B Serious eye damage/eye irritation: Eye Dam. 1 Respiratory or skin sensitisation: Skin Sens. 1 Hazardous to the aquatic environment: Aquatic Chronic 2 Hazard Statements: Harmful if swallowed. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Toxic to aquatic life with long lasting effects.

2.2. Label elements

Hazard components for labelling

Glyceryl poly(oxypropylene) triamine Poly(oxy(methyl-1,2-ethanediyl)),alpha-(2-aminomethylethyl)omega-(2-aminomethylethoxy)-6-Methyl-2,4-bis(methylthio)phenylene-1,3-diamine 4,4'-methylenebis[N-sec-butylaniline] Signal word: Danger

Pictograms:



Hazard statements

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements

P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

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P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 P273	Immediately call a POISON CENTER/doctor. Avoid release to the environment.
<u>2.3. Other hazards</u> Not known.	

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization Mixture of organic amines

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulat	ion (EC) No. 1272/2008 [CLP]	•	
64852-22-8	Glyceryl poly(oxypropylene) triamine			< 30 %
	Skin Irrit. 2, Eye Dam. 1, Aquatic C	hronic 3; H315 H318 H412		
9046-10-0 Poly(oxy(methyl-1,2-ethanediyl)),alpha-(2-aminomethylethyl)omega-(2		a-(2-aminomethylethoxy)-	< 25 %	
	Acute Tox. 4, Skin Corr. 1B, Aquatic Chronic 3; H302 H314 H412			
106264-79-3	6-Methyl-2,4-bis(methylthio)phenylene-1,3-diamine		< 20 %	
	403-240-8	612-113-00-8	01-2119943036-42	
	Acute Tox. 4, Skin Sens. 1, Aquation	Acute 1, Aquatic Chronic 1; H3	02 H317 H400 H410	
5285-60-9	4,4'-methylenebis[N-sec-butylaniline]		< 10 %	
	226-122-6			
	Acute Tox. 4; H302			
68479-98-1	Diethylmethylbenzenediamine		< 5 %	
	270-877-4	612-130-00-0	01-2119486805-25	
	Acute Tox. 4, Acute Tox. 4, Eye Irri Chronic 1; H302 H312 H319 H373		1 (M-Factor = 1), Aquatic	

Full text of H and EUH statements: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove contaminated soaked clothing immediately. Consult a physician. Take away from danger area and lay down affected person.

After inhalation

Move to fresh air in case of accidental inhalation of vapours or decomposition products. In the event of symptoms refer for medical treatment.

After contact with skin

In case of contact with skin wash off immediately with plenty of water. Consult a physician.

After contact with eyes

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult (eye) doctor immediately.

After ingestion

Do not induce vomiting. Rinse out mouth and give plenty of water to drink. Never give anything by mouth to an unconscious person.

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Summon a doctor immediately. Induce vomiting only upon the advice of a physician.

4.2. Most important symptoms and effects, both acute and delayed

Harmful if swallowed.

Causes severe skin burns and eye damage. May cause an allergic skin reaction.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Foam, carbon dioxide (CO2), dry chemical, water-spray.

Unsuitable extinguishing media

Full water jet.

5.2. Special hazards arising from the substance or mixture

Fire may produce:

Carbon monoxide (CO), carbon dioxide (CO2) and nitrogen oxides (NOx).

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective suit.

Additional information

Do not release chemically contaminated water into drains, soil or surface waters. Sufficient measures must be taken to retain water used for extinguishing.

Cool containers at risk with water spray jet.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

In case of vapour formation use respirator. Ensure adequate ventilation. Use personal protective clothing. Avoid contact with skin, eyes and clothing.

6.2. Environmental precautions

Do not discharge into the drains/surface waters/ground water. Do not discharge into the subsoil/soil.

6.3. Methods and material for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder). Shovel into suitable container for disposal.

6.4. Reference to other sections

Observe protective instructions (see Sections 7 and 8). Information for disposal see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Keep container tightly closed. Avoid contact with the skin and the eyes. Do not breathe vapours. Use only in thoroughly ventilated areas.

Advice on protection against fire and explosion

Keep away from heat and sources of ignition.

No special protective measures against fire required.

7.2. Conditions for safe storage, including any incompatibilities

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Requirements for storage rooms and vessels

Keep container tightly closed in a dry, cool and well-ventilated place.

Advice on storage compatibility Incompatible with acids.

Further information on storage conditions

Keep away from food, drink and animal feeding stuffs.

7.3. Specific end use(s)

Coating system for protection against wear and corrosion

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.2. Exposure controls

Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas.

Protective and hygiene measures

Do not inhale vapours. Avoid contact with eyes and skin. Wash hands before breaks and immediately after handling the product. When using do not eat, drink or smoke. Remove and wash contaminated clothes before re-use.

Eye/face protection

Tightly fitting goggles (EN 166). Eye wash bottle with pure water (EN 15154).

Hand protection

Chemical protective gloves made of nitrile, nitrile/cotton, butyl or neoprene, with a minimum thickness of 0.7 mm, permeation time of approx. 480 minutes.

This recommendation refers exclusively to the chemical compatibility and the lab test conforming to EN 374 carried out under lab conditions.

Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves.

Pls. find examples in the protective gloves database under: http://bestglove.com/site/chemrest/

Skin protection Long sleeved clothing (EN 368).

Respiratory protection

In case of insufficient ventilation wear suitable respiratory equipment (gas filter type A) (EN 14387).

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid - viscous
Colour:	Various
Odour:	Amine like
Changes in the physical state	
Flash point:	> 100 °C
Lower explosion limits:	n.d.
Ignition temperature:	n.d.
Density (at 25 °C):	1,19 - 1,23 g/cm³
Water solubility:	Immiscible
Viscosity / dynamic:	1700 - 2000 mPa·s
(at 25 °C)	
9.2. Other information	
No data available.	

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SECTION 10: Stability and reactivity

10.1. Reactivity

No decomposition if stored and applied as directed.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Reactions with acids.

10.4. Conditions to avoid

To avoid thermal decomposition, do not overheat.

10.5. Incompatible materials

Acids.

10.6. Hazardous decomposition products

Carbon monoxide (CO), carbon dioxide (CO2) and nitrogen oxides (NOx).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity Harmful if swallowed. No toxicological data available.

Irritation and corrosivity

Causes severe skin burns and eye damage.

Sensitising effects

May cause an allergic skin reaction. (6-Methyl-2,4-bis(methylthio)phenylene-1,3-diamine)

STOT-single exposure

Based on available data, the classification criteria are not met.

Severe effects after repeated or prolonged exposure

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Additional information on tests

Classification in compliance with the assessment procedure specified in the Regulation (EC) no

1272/2008.

Practical experience

Other observations

Inhalation of vapours in high concentration may cause irritation of respiratory system. After single absorption, risk of blood damage (methaemoglobinaemia).

SECTION 12: Ecological information

12.1. Toxicity

Ecological data are not available. Toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability

No data available.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

According to Regulation (EC) No 1907/2006 (REACH) none of the substances, contained in this product are a PBT / vPvB substance.

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12.6. Other adverse effects

Severe hazard to waters.

Further information Do not flush into surface water or sanitary sewer system.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

080409

Where possible recycling is preferred to disposal. Can be incinerated, when in compliance with local regulations.

Waste disposal number of waste from residues/unused products

WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances Classified as hazardous waste.

Contaminated packaging

Empty containers should be taken for local recycling, recovery or waste disposal. Contaminated packagings are to be treated like the product itself. Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

SECTION 14: Transport information

Land transport (ADR/RID)

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<u>14.1. UN number:</u>	UN 2735
14.2. UN proper shipping name:	AMINES, LIQUID, CORROSIVE, N.O.S. (Polyoxypropylene diamine)
14.3. Transport hazard class(es):	8
14.4. Packing group:	III
Hazard label:	8
	8
Classification code:	C7
Limited quantity:	5 L / 30 kg
Excepted quantity:	E1
Transport category:	3
Hazard No:	80
Tunnel restriction code:	E
Inland waterways transport (ADN)	
<u>14.1. UN number:</u>	UN 2735
14.2. UN proper shipping name:	AMINES, LIQUID, CORROSIVE, N.O.S. (Polyoxypropylene diamine)
14.3. Transport hazard class(es):	8
14.4. Packing group:	III
Hazard label:	8
Classification code:	C7
Limited quantity:	5 L / 30 kg
Excepted quantity:	E1
Marine transport (IMDG)	
<u>14.1. UN number:</u>	UN 2735

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14.2. UN proper shipping name:	AMINES, LIQUID, CORROSIVE, N.O.S. (polyoxypropylene diamine)
14.3. Transport hazard class(es):	8
14.4. Packing group:	111
Hazard label:	8
	8
Marine pollutant:	Yes
Limited quantity:	5 L / 30 kg
Excepted quantity:	E1
EmS:	F-A, S-B
Air transport (ICAO)	
<u>14.1. UN number:</u>	UN 2735
14.2. UN proper shipping name:	AMINES, LIQUID, CORROSIVE, N.O.S. (polyoxypropylene diamine)
14.3. Transport hazard class(es):	8
14.4. Packing group:	III
Hazard label:	8
	8
Limited quantity Passenger:	1L
Passenger LQ:	Y841
Excepted quantity:	E1
IATA-packing instructions - Passenger:	852
IATA-max. quantity - Passenger:	5 L
IATA-packing instructions - Cargo:	856
IATA-max. quantity - Cargo:	60 L
14.5. Environmental hazards	
ENVIRONMENTALLY HAZARDOUS:	yes
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14.6. Special precautions for user

Handle in accordance with good industrial hygiene and safety practice.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

The transport takes place only in approved and appropriate packaging.

SECTION 15: Regulatory information

EU regulatory information	
2004/42/EC (VOC):	0 %
National regulatory information	
Employment restrictions:	Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.
Water contaminating class (D):	3 - highly water contaminating
15.2. Chemical safety assessment	
For this substance a chemical safety assessm	ent has not been carried out.

SECTION 16: Other information

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Abbreviations and acronyms

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route

RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses

ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure IMDG = International Maritime Code for Dangerous Goods

IATA/ICAO = International Air Transport Association / International Civil Aviation Organization

MARPOL = International Convention for the Prevention of Pollution from Ships

IBC-Code = International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

REACH = Registration, Evaluation, Authorization and Restriction of Chemicals

CAS = Chemical Abstract Service

EN = European norm

ISO = International Organization for Standardization

- DIN = Deutsche Industrie Norm
- PBT = Persistent Bioaccumulative and Toxic

vPvB = Very Persistent and very Bio-accumulative

LD = Lethal dose

LC = Lethal concentration

EC = Effect concentration

IC = Median immobilisation concentration or median inhibitory concentration

Relevant H and EUH statements (number and full text)

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Further Information

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

(n.a. = not applicable; n.d. = not determined)

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)